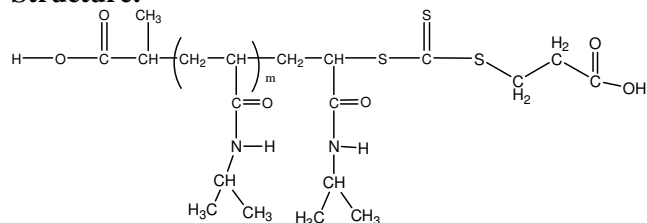


Sample Name: α,ω -dicarboxy terminated poly(N-isopropyl acrylamide)

Sample #: P16039-NIPAM2COOH

Structure:



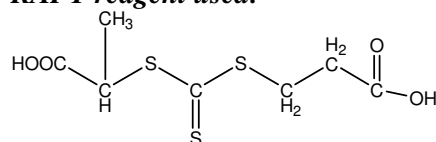
Composition:

Mn x 10 ³	PDI
23.5	1.23

Synthesis Procedure:

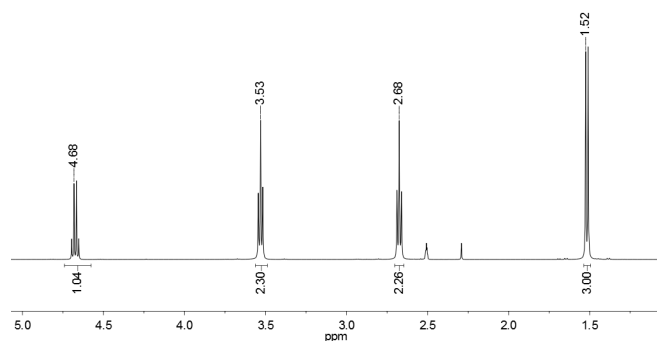
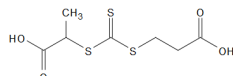
α,ω -dicarboxy Terminated Poly(N-isopropyl acrylamide) was prepared by RAFT process:

RAFT reagent used:



¹H NMR spectrum of the RAFT reagent:

¹H NMR (500MHz, DMSO-d₆): P20260A-RAFT



Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector with triple detector in DMF at 50°C.

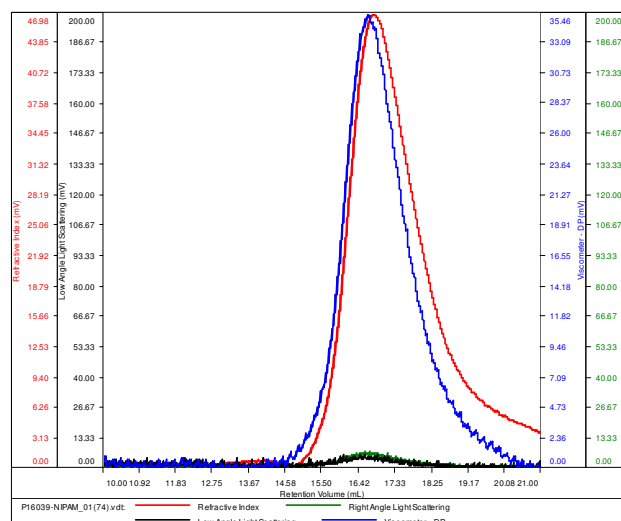
Thermal analysis:

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

SEC elugram of the polymer:

P16039-NIPAM-COOH

Conc (mg/mL)	4.9510
dn/dc (mL/g)	0.0770
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16039-NIPAM_01(74).vdt	23,558	28,973	29,954	1.230	0.1503

DSC thermogram of the polymer:

